## WHAT IS CLAIMED IS: 1. A horizontal band

2	1. A horizontal band saw comprising:
3	a base assembly comprising
4	a frame having a front, a rear and a transverse passage formed
5	between the front and the rear;
6	an elevating device mounted in the frame; and
7	a conveyer mounted in the transverse passage of the frame and
8	supported by the elevating device;
9	a sawing mechanism pivotally mounted on the frame and comprising
10	a housing pivotally mounted on the frame and having a bottom
11	and a cutting window above the conveyer; and
12	a bandsaw blade mounted in the housing and having a segment
13	traversing the cutting window; and
14	a bevel cutting adjustment device connecting the frame to the housing
15	and the bevel cutting adjustment device comprising
16	a rear pivot assembly mounted on the rear of the frame and
17	pivotally connected to the bottom of the housing; and
18	a front adjustment assembly mounted on the front of the frame
19	and connected to the bottom of the housing, and the front adjustment assembly
20	comprising
21	an inclination adjusting assembly connecting the front
22	of the frame to the bottom of the housing and the inclination adjusting assembly
23	comprising
24	a top stationary bracket mounted on the bottom

1	of the housing and having a proof pin,
2	a bottom stationary bracket mounted on the
3	front of the frame and aligned with the top stationary bracket;
4	a pivot seat pivotally mounted on the bottom
5	stationary bracket and having a top;
6	an adjusting gear rotatably mounted in the top
7	of the pivot seat and having an axial threaded hole;
8	a driving assembly mounted on the pivot seat to
9	turn the adjusting gear; and
10	a leader threaded rod screwed into the axial
11	threaded hole of the adjusting gear and having a top end pivotally connected to
12	the pivot pin of the top stationary bracket and a bottom end extending out of the
13	pivot seat;
14	wherein the leader threaded rod selectively extends out of and retracts
15	into the axial threaded hole of the adjusting gear to move the top stationary
16	bracket closer to or farther away from the conveyer as the adjusting gear is
17	turned.
18	2. The horizontal band saw as claimed in claim 1, wherein
19	the driving assembly of the inclination adjusting assembly comprises
20	a shaft sleeve fastened on the pivot seat;
21	a diving shaft rotatably mounted in the shaft sleeve and having
22	an inside end and an outside end that extend respectively out of the shaft sleeve
23	a handwheel attached to the outside end of the driving shaft to
24	turn the driving shaft; and

1	a driving pinion attached to the inside end of the driving shaft
2	and rotated by the driving shaft; and
3	the adjusting gear further has a ring gear engaged by the driving pinion.
4	3. The horizontal band saw as claimed in claim 1, wherein
5	the bottom stationary bracket comprises a stationary block fastened on
6	the front of the frame and a detachable block detachably attached to the front of
7	the frame, and the stationary block and the detachable block respectively have an
8	aligned pin hole; and
9	the pivot seat is pivotally mounted between the stationary and the
10	detachable blocks and further has two pivot pins respectively held in the pin
11	holes of the stationary and the detachable blocks.
12	4. The horizontal band saw as claimed in claim 1, wherein the front
13	adjustment assembly further comprises a vertical supporting post mounted on
14	the frame at a position below the bottom of the housing, the vertical supporting
15	post comprises a stationary seat attached to the frame at the position and a
16	threaded shank retractably screws into the stationary seat and having an enlarged
17	top end to support the bottom of the housing.
18	5. The horizontal band saw as claimed in claim 1, wherein the frame
19	further comprises a base having has four corners, a vertical support with a top
20	end integrally formed at each of the corners of the base and a transverse beam
21	with a top mounted on the top ends of two of the vertical supports;
22	wherein the transverse beams are parallel to each other, and the
23	transverse passage is defined between the transverse beams.
24	6. The horizontal band saw as claimed in claim 2, wherein

1	the bottom stationary bracket comprises a stationary block fastened on
2	the front of the frame and a detachable block detachably attached to the front of
3	the frame, and the stationary block and the detachable block respectively have an
4	aligned pin hole; and
5	the pivot seat is pivotally mounted between the stationary and the
6	detachable blocks and further has two pivot pins respectively held in the pin
7	holes of the stationary and the detachable blocks.
8	7. The horizontal band saw as claimed in claim 6, wherein the front
9	adjustment assembly further comprises a vertical supporting post mounted on
10	the frame at a position below the bottom of the housing, the vertical supporting
11	post comprises a stationary seat fastened on the frame at the position and a
12	threaded shank retractably screws in the stationary seat and having an enlarged
13	top end to support the bottom of the housing.
14	8. The horizontal band saw as claimed in claim 7, wherein the frame
15	further comprises a base having has four corners, a vertical support with a top
16	end integrally formed at each of the corners of the base and a transverse beam
17	with a top mounted on the top ends of two of the vertical supports;
18	wherein the transverse beams are parallel to each other, and the
19	transverse passage is defined between the transverse beams.
20	9. The horizontal band saw as claimed in claim 8, wherein
21	the base assembly further comprises
22	an actuator mounted on the base of the frame; and
23	a control box mounted on the rear of the frame; and
24	the elevating device comprises

1	two mounting brackets respectively fastened on the vertical
2	supports of the frame, and each of the mounting brackets having a top and a
3	bottom;
4	a hydraulic motor mounted on the bottom of one of the
5	mounting brackets, actuated by the actuator and having a shaft extended upward;
6	two rod drive wheels rotatably mounted on each of the mounting
7	brackets and each of the rod drive wheels having an axial threaded hole;
8	a belt drive wheel mounted on the top of each of the mounting
9	bracket between the rod drive wheels;
10	an endless lifting belt meshed with the rod drive wheels and the
11	belt drive wheels; and
12	a threaded lifting rod rotatably mounted in a respective one of
13	the axial threaded holes in the rod drive wheels and having a top end connected
14	to the conveyer;
15	wherein the shaft of the hydraulic motor concentrically connects to a
16	respective one of the belt drive wheels to rotate the connected belt drive wheel.
17	10. The horizontal band saw as claimed in claim 9, wherein the elevating
18	device further comprises
19	a counting disk concentrically attached to a respective one of the belt
20	drive wheels and having an outer edge and multiple counting recesses
21	equidistantly defined at the outer edge of the counting disk; and
22	a sensor mounted on the top of one of the mounting brackets, electrically
23	connected to the control box and selectively corresponding to the counting
24	recesses of the counting disk.